IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

1-40. (Canceled)

41. (Currently Amended) A processing system for a wireless mobile device for communication in a wireless communication network, said processing system comprising:

a component coordinator unit for providing ~~application~~ applications of the wireless mobile device with a generic platform and network-independent framework that uses a platform and network-neutral set of application adaptation mechanisms, including a QoS negotiation and re-negotiation protocol; and

a QoS broker unit being managed by the component coordinator unit and coordinating ~~local and remote resource~~ management of resources of the wireless mobile device and of remote resources by using said negotiation and re-negotiation protocol.

42. (Previously Presented) The processing system according to claim 41, wherein said protocol uses piggyback mechanisms for QoS negotiating and re-negotiating.

43. (Previously Presented) The processing system according to claim 41, wherein said generic framework addresses different types of applications including existing applications and applications that rely on middleware.

44. (Previously Presented) The processing system according to claim 41, wherein said generic framework is based on an application model in which each application is allocated to one of a set of application classes having different QoS level with respect to resource usage.

45. (Previously Presented) The processing system according to claim 44, wherein fallback mechanisms are provided for a backward-compatibility between the application classes.

46. (Previously Presented) The processing system according to claim 44, wherein said generic framework is based on a communication model with different functional communication levels for exploiting the various resources in a coordinated manner so as to achieve the desired overall QoS level.

47. (Previously Presented) The processing system according to claim 46, wherein said communication levels include an application, a session, an association and a stream level.

48. (Previously Presented) The processing system according to claim 41, wherein the QoS broker unit coordinates an external network resource booker unit which manages network resource reservation mechanisms in an implementation independent way.

49. (Previously Presented) The processing system according to claim 41, further comprising a session manager unit being coordinated by the QoS broker unit for establishing and managing sessions in an implementation independent way.

50. (Previously Presented) The processing system according to claim 49, further comprising one or more chain coordinator units being managed by the QoS broker unit through the session manager unit and managing one or more component chains, each chain being associated with a stream.

51. (Previously Presented) The processing system according to claim 50, further comprising one or more CPU-manager units coordinated by the chain coordinator units for managing CPU-resource usage.

52. (Previously Presented) The processing system according to claim 51, further comprising a CPU-resource controller unit providing said CPU-manager units with platform independent resource status information retrieval and control.

53. (Previously Presented) The processing system according to claim 50, further comprising one or more memory manager units coordinated by the chain coordinator units for managing memory resource usage.

54. (Previously Presented) The processing system according to claim 53, further comprising a memory controlling unit for providing the memory manager units with platform-independent resource status information retrieval and control.

55. (Previously Presented) The processing system according to claim 50, further comprising one or more network protocol manager units coordinated by the chain coordinator units for managing network protocol resource usage.

56. (Previously Presented) The processing system according to claim 55, further comprising a network protocol controller unit for providing the network protocol manager units with resource status information retrieval and control.

57. (Previously Presented) The processing system according to claim 50, further comprising one or more multimedia components coordinated by the chain coordinator units for managing multimedia resources.

58. (Previously Presented) The processing system according to claim 57, further comprising a multimedia controller providing the multimedia component units with platform independent resource status information retrieval and control.

59. (Currently Amended) A computer readable storage medium for a wireless mobile device with a component coordinator unit for communication in a wireless communication network, said storage medium having a program stored therein for the purpose of performing a method of providing applications, said method comprising the steps of:

providing applications of the wireless mobile device with a generic platform and network-independent framework which uses a platform and network-neutral set of application adaptation mechanisms including a QoS negotiation and re-negotiation protocol; and

providing a QoS broker unit being managed by the component coordinator unit and coordinating ~~local and remote resource~~ management of resources of the wireless mobile device and of remote resources by using said negotiation and re-negotiation protocol.

60. (Previously Presented) The computer readable storage medium according to claim 59,

wherein said protocol uses piggyback mechanisms for QoS negotiating and re-negotiating.

61. (Previously Presented) The computer readable storage medium according to claim 59,

wherein said generic framework addresses different types of applications

including existing applications and applications that rely on middleware.

62. (Previously Presented) The computer readable storage medium according to claim 59,

wherein said generic framework is based on an application model in which each application is allocated to one of a set of application classes having different QoS level with respect to resource usage.

63. (Previously Presented) The computer readable storage medium according to claim 62,

wherein fullback mechanisms are provided for a backward-compatibility between the application classes.

64. (Previously Presented) The computer readable storage medium according to claim 62,

wherein said generic framework is based on a communication model with different functional communication levels for exploiting the various resources in a coordinated manner so as to achieve the desired overall QoS level.

65. (Previously Presented) The computer readable storage medium according to claim 64,

wherein said communication levels include an application, a session, an association and a stream level.

66. (Previously Presented) The computer readable storage medium according to claim 59,

further comprising a network resource booker unit being coordinated by the QoS broker unit and managing network resource reservation mechanisms in an implementation independent way.

67. (Previously Presented) The computer readable storage medium according to claim 59,

further comprising a session manager unit being coordinated by the QoS broker unit for establishing and managing sessions in an implementation independent way.

68. (Previously Presented) The computer readable storage medium according to claim 67,

further comprising one or more chain coordinator units being managed by the QoS broker unit through the session manager unit and managing one or more component chains, each chain being associated with a stream.

69. (Previously Presented) The computer readable storage medium according to claim 68,

further comprising one or more CPU-manager units coordinated by the chain coordinator units for managing CPU-resource usage.

70. (Previously Presented) The computer readable storage medium according to claim 69,

further comprising a CPU-resource controller unit providing said CPU-manager units with platform independent resource status information retrieval and control.

71. (Previously Presented) The computer readable storage medium according to claim 68,

further comprising one or more memory manager units coordinated by the chain coordinator units for managing memory resource usage.

72. (Previously Presented) The computer readable storage medium according to claim 71,

further comprising a memory controlling unit for providing the memory manager units with platform-independent resource status information retrieval and control.

73. (Previously Presented) The computer readable storage medium according to claim 68,

further comprising one or more network protocol manager units coordinated by the chain coordinator units for managing network protocol resource usage.

74. (Previously Presented) The computer readable storage medium according to claim 73,

further comprising a network protocol controller unit for providing the network protocol manager units with resource status information retrieval and control.

75. (Previously Presented) The computer readable storage medium according to claim 68,

further comprising one or more multimedia components coordinated by the chain coordinator units for managing multimedia resources.

76. (Previously Presented) The computer readable storage medium according to claim 75,

further comprising a multimedia controller providing the multimedia component units with platform independent resource status information retrieval and control.